US6076026: Method and device for vehicle control, events data recording and securing

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Abstract:

A device (100) and method (200, 300) authenticate and secure control event data for a vehicle, wherein the device includes: A) a microcontroller (104), coupled to receive control event information, for attaching a first time stamp and vehicle identification number VIN to the control event information to provide first information and sending the first information to memory (106) in time overlap fashion; B) the memory (106), coupled to the microcontroller (104) and a microprocessor (108), for storing first information and second information in time overlap fashion; and C) the microprocessor (108), coupled to the memory (106) and a plurality of transducers (110), for determining whether received impact data varies from previous impact data, and where received impact data varies, adding a second time stamp and VIN to the received impact data to form second information.

First Claim:

We claim:

1. A device for authenticating and securing control event data for a vehicle, comprising:

- A) a microcontroller, coupled to receive control event information, for attaching a first time stamp and vehicle identification number VIN to the control event information to provide first information and sending the first information to memory in time overlap fashion;

- B) the memory, coupled to the microcontroller and a microprocessor, for storing first information and second information in time overlap fashion; and
- C) the microprocessor, coupled to the memory and a plurality of transducers, for determining whether received impact data varies from previous impact data, and where received impact data varies, adding a second time stamp and VIN to the received impact data to form second information.